

In the Claims

Applicant has submitted a new complete claim set, with insertions and deletions in amended claims indicated by underlining and strikeouts, respectively.

1. (Currently amended) A method for identifying a compound capable of binding to ribosome recycling factor (RRF) protein, comprising steps of:

a) using a three-dimensional structure of said protein as defined by atomic coordinates of RRF protein according to Table 8; and

b) employing said three-dimensional structure to design or select said compound capable of binding to RRF protein;

~~—— c) synthesizing said compound capable of binding to RRF protein; and~~

~~—— d) contacting said compound capable of binding to RRF protein with said RRF protein in the presence of a substrate to determine the ability of said compound capable of binding to RRF protein to bind said RRF protein.~~

2.-51. (Canceled)

52. (Previously presented) The method according to claim 1, wherein said compound capable of binding to RRF protein is designed de novo.

53. (Previously presented) The method according to claim 1, wherein said compound capable of binding to RRF protein is designed from a known compound capable of binding to RRF protein.

54. (New) The method according to claim 1, further comprising the step of:

c) synthesizing said compound capable of binding to RRF protein.

55. (New) The method according to claim 54, wherein said compound capable of binding to RRF protein is designed de novo.

56. (New) The method according to claim 54, wherein said compound capable of binding to RRF protein is designed from a known compound capable of binding to RRF protein.

57. (New) The method according to claim 54, further comprising the step of:

d) contacting said compound capable of binding to RRF protein with said RRF protein in the presence of a substrate to determine the ability of said compound capable of binding to RRF protein to bind said RRF protein.

58. (New) The method according to claim 57, wherein said compound capable of binding to RRF protein is designed de novo.

59. (New) The method according to claim 57, wherein said compound capable of binding to RRF protein is designed from a known compound capable of binding to RRF protein.